

**(WO/2005/015121) STYLUS TIP FOR WORKPIECE CONTACTING PROBE**

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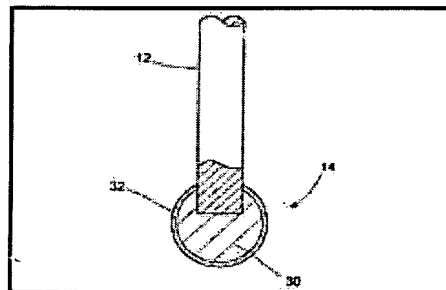
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**Title:** STYLUS TIP FOR WORKPIECE CONTACTING PROBE

**Abstract:** A stylus (12) for a workpiece contacting probe has a tip (14) which comprises a self-lubricating or low friction material, in order to inhibit debris generation or adhesive wear (pick up) as the tip scans a workpiece surface. Various materials are described, including composites having a solid state lubricant incorporated into a dimensionally stable microstructure. The tip (14) may be made entirely of such a composite, or may have a substrate (30) with a coating (32) of the self-lubricating or low friction material. Suitable materials are silicon carbide or silicon nitride containing free graphite hexagonal boron nitride, molybdenum sulphide or metallic tin, furthermore silicon carbide/nitride impregnated with PTFE, or annealed boron carbide.



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